A&S PROGRAM CHANGES SPRING 2010

PHYSICS & ASTRONOMY

The A&S Curriculum Committee has approved the proposal for the 5-year B.S. Physics/M.A.T. Science Education program. The proposed program allows students to fast-track MAT completion while earning a B.S. in Physics. The proposal has also been approved by

- H. Richard Miller, Physics & Astronomy Chair
- Dana Fox, Middle-Secondary Education and Instructional Technology Chair
- William Nelson, Associate Dean, Research and Graduate Studies
- College of Education’s PEF Curriculum Committee

The Professional Education Council and Committee on Academic Programs will also review the proposal in the coming months.

A&S CURRICULUM CHANGES SPRING 2010 (EFFECTIVE SPRING 2011)

APPLIED LINGUISTICS & ESL

ADDS

- AL 8955 ACADEMIC SOCIALIZATION 3.0
  Academic and Professional Socialization for Applied Linguistics. In this doctoral course, students will read about and discuss issues related to being a successful doctoral student and job applicant. Topics include the importance of mentors, time-management, professional development (e.g., writing abstracts for conferences, presenting papers, writing for publication), ethics (e.g., multiple authorship), development of CVs, grant-writing, deconstruction of job ads, jobs (e.g., phone interviews, on-site interviews), and the first year on the job (e.g., research, teachings, and service). Students also keep a reflective journal.

ART & DESIGN

ADDS

- TEXT 4800 DIGITAL TEXTILE DESIGN II 4.0
  Digital Textile Design II. Prerequisite: Text 3800 with grade of C or higher, or consent of instructor. An exploration of advanced industrial CAM software editing tools to create printed and woven fabrics designed on CAD software. An industrial mill output optional.

CHANGES

- ART 1020 TWO-DIMENSIONAL DESIGN (Description Change)
  Two-Dimensional Design. The fundamentals of two-dimensional design introduced through projects in a variety of media.

- ART 1030 THREE-DIMENSIONAL DESIGN (Description Change)
  Three-Dimensional Design. The fundamentals of three-dimensional design introduced through projects in a variety of media.

- ART 3910 CRITICAL ISSUES IN CONTEMP ART (Description Change; Credit Hour Change) 3.0
Critical Issues in Contemporary Art-CTW. Prerequisite: 18 credit hours in art. Interdisciplinary course examining changes over the past fifty years, both in art and society, and how these changes have influenced contemporary art and professional art practice. Emphasis on theoretical and critical thinking. Serves as one of the two Critical Thinking Through Writing (CTW) courses required of all Art majors.

- **DPP 3900 SELECTD TOPICS IN DRAW & PAINT** (Description Change)
  Selected Topics in Drawing and Painting. Prerequisites: Two 2000-3000 level DPP courses with grades of C or higher. Special topics for drawing and painting majors. May be repeated for a maximum of twelve credit hours. Lab Fee: $20.00.

- **GRD 3910 HISTORY OF GRAPHIC DESIGN** (Prerequisite Change)
  Prerequisites: GrD 3200 with grade of C or higher and consent of graphic design area coordinator or instructor.

- **TEXT 3300 FIBERS, FABRICS, AND FORMS** (Description Change; Title Change, Prerequisite Change; Credit Hour Change) 1.0; 2.0; 3.0
  Fibers, Fabrics, and Forms. Prerequisites: Art 1010, Art 1020, Art 1030, and AH 1700 with grades of C or higher. An introduction to the practices, processes, and ideas of a creative artist working in 3D Fiber/Mix-Media forms. Course focuses on hand-constructed processes and structures such as coiling, twining, interlacing, knitting, crocheting, etc. as three-dimensional art forms.

**BIOLOGY**

**CHANGES**

- **BIOL 8550 INTRO TO GRADUATE BIOL STUDIES** (Description Change)
  Introduction to Graduate Studies in Biology. (Same as Neur 8600.) Two lectures hour a week. Analysis, discussion, and review of basic skills, techniques, requirements for compliance in biology, organizational requirements, and requirements for responsible conduct in research (RCR), including ethics, publication, attribution of work, conflict of interest, and human and animal welfare. Course also entails taking and passing the Federal on-line RCR review (CITI).

**COMPUTER SCIENCE**

**ADDS**

- **CSC 4222 INTRO TO INFO SECURITY** 4.0
  Introduction to Information Security. Prerequisite: CSc 4220 with a grade of C or higher. This course provides an initial overview on the topic of Information Security. It covers the basics of encryption and decryption, program security including viruses and other malicious code, application security, security in operating systems, security in networks and distributed systems, different methods of administering security, and legal and ethical issues in computer security.

- **CSC 6222 INTRO TO INFO SECURITY** 4.0
  Introduction to Information Security. Prerequisite: CSc 4220 with a grade of C or higher. This course provides an initial overview on the topic of Information Security. It covers the basics of encryption and decryption, program security including viruses and other malicious code, application security, security in operating systems, security in networks and distributed systems, different methods of administering security, and legal and ethical issues in computer security.

**CHANGES**

- **CSC 1310 INTRO COMP PROGRAMMING NON-MAJ** (Description Change)
Introduction to Computer Programming for Non-Majors. This class introduces students with no previous experience to computer programming. The class emphasizes design principles (e.g., pseudocode, stepwise refinement, object-oriented design) as well as the syntax and semantics of Python. This class is for non-majors interested in obtaining some fundamental computer programming skills.

- **CSC 2510** THEOR FOUNDATIONS OF COMP SCI (Prerequisite Change)
  Prerequisites: CSc 2010 and Math 113 with a grade of C or higher.

- **CSC 8222** NETWORK SECURITY (Description Change)
  Network Security. Prerequisite: CSc 4220 or CSc 6220. This course provides students with a detailed understanding of the fundamentals of network security. Significant focus will be placed on the five phases of network attacks: reconnaissance, scanning, gaining access/denial of service, maintaining access, and covering tracks. Topics to be covered include: Web security, Security standards-SSL/TLS and SET, Intruders and viruses, PGP and S/MIME for electronic mail security, Firewalls, IDS Secret Key and Public/Private Key Cryptography Cryptographic Hashes and Message Digests, Authentication Systems (Kerberos), Digital signatures and certificates, Kerberos and X.509v3 digital certificates. Also, current network security publications will be surveyed.

**HISTORY**

**ADDS**

- **HIST 3900** HUMAN RIGHTS IN HIST PERS 4.0
  Human Rights in Historical Perspective. Exploration of the historical development of human rights as contested ideal, movement, and institution. Topics may include premodern origins of human rights, modern struggles for the recognition of human rights, and historic and recent controversies around the legitimacy of human rights. May be repeated if topic varies.

- **HIST 4430** AMERICAN JEWISH HISTORY 4.0
  American Jewish History. This course surveys the Jewish experience in the United States, examining the religious, cultural, political, and economic activities of American Jews from the colonial period to the present. Students will explore the ways Jewish tradition has been adapted in America, what the relationship of American Jews has been to other Americans, and how American Jewish identities have been created from modern Jews' dual impulses for integration and distinctiveness. The course will include a significant examination of issues of regional identity, with particular focus upon the Southern Jewish experience. We will explore Jewish relationships with black and white gentile southerners, as well as southern Jews' embrace of southern culture and southern identity. This course will also familiarize students with the excellent resources on Atlanta Jewish history available at local archives.

**CHANGES**

- **HIST 3680** MODERN JEWISH HISTORY (Title Change)

- **HIST 4215** SPACE & PLACE IN AMERICAN HIST (Change Description; Title Change)
  Space and Place in American History. Explores the history, design, and meaning of ordinary places and buildings in the U.S. from houses and resorts to skyscrapers and factories. Topics include theories of "high" culture and "low:" the history of architecture and real estate; and methodologies from history, geography, anthropology, and sociology for mapping power, conceiving of landscape as history, and understanding space as a commodity. Students will learn to use the built environment as evidence of larger historical trends, including social, economic, and political struggle.

- **HIST 8999** THESIS RESEARCH (Grade Mode Change) – IP to S/U

- **HIST 9999** DISSERTATION RESEARCH (Grade Mode Change) – IP to S/U
MATHEMATICS & STATISTICS

CHANGES

- MATH 4991 SENIOR SEMINAR (Prerequisite Change)
  Prerequisite: Math 4435 with grade of C or higher.

- MATH 8570 COMPLT MTHDS & MODEL/LIFE SCI (Change Description)
  Computational Methods and Modeling for the Life Sciences. (Same as Neur 8370.) Prerequisite: Math 6010 (Mathematical Biology) or Math 6275 (Applied Dynamical Systems) with a grade of C or higher. Advanced computational and mathematical modeling methods for generating and analyzing deterministic dynamic models in the context of scientific data. Biological case studies may be drawn from many areas involving all scales of inquiry, from molecules to ecosystems.

MIDDLE EAST INSTITUTE

ADDS

- MES 4570 STUDY ABROAD 3.0 TO 6.0
  Study Abroad. Prerequisite: consent of instructor. Students will explore the culture and history of a Middle Eastern country through direct field experience in the country. Foreign language knowledge is not required.

- MES 4890 INDEPENDENT STUDY 1.0 TO 4.0
  Independent Study. Prerequisites: consent of instructor and Institute director. This course is designed to provide students with the opportunity to do more advanced work in an area in which they have already had regular course work. Not to be used as a substitute for regularly offered upper-level courses. May be repeated for a maximum of 6 hours if topic varies.

CHANGES

- ARBC 3100 SPOKEN ARABIC DIALECT (Description Change; Title Change; Prerequisite Change)
  Spoken Arabic Dialect. This course introduces one of the spoken Arabic dialects used in everyday conversation. The specific dialect (Egyptian, Levantine, Moroccan) varies by semester and instructor.

- ARBC 4501 CLASSICAL ARABIC LIT & CULTURE (Description Change; Title Change)
  Classical Arabic Literature and Culture. This course is an introduction to classical Arabic literature and culture from its beginnings in the fifth century to the thirteenth century C.E. The course includes selections from the Qur'an as well as texts and poetry representing different literary periods: Pre-Islamic, Early Islamic, Umayyad, Abbasid, and Hispano-Arabic. The course also addresses the scientific and technological developments of the period. All readings will be in English translation. No knowledge of Arabic is required.

- HBRB 1001 ELEMENTARY BIBLICAL HEBREW I (Title Change)

- HBRB 1002 ELEMENTARY BIBLICAL HEBREW II (Title Change; Prerequisite Change)
  Prerequisite: Hbrb 1001 with grade of C or higher, or equivalent.

MODERN & CLASSICAL LANGUAGES

CHANGES

- JAPN 3010 LISTENING/PRONUNCIATION CLINIC (Description Change; Title Change; Credit Hour Change) 3.0
Listening and Pronunciation Clinic. Analysis of differences between English and Japanese phonetic segments and rules; exercises to help students overcome their foreign accent in Japanese through use of recently developed audio-lingual materials.

- **JAPN 3081 JAPANESE LANG AND SOCIETY** (Prerequisite Change)
  Prerequisite: Japn 1002 with grade of C or higher.

- **SPAN 3309 SPAN CULTURE&CIVILIZATION-CTW** (Description Change; Title Change)
  Spanish Culture and Civilization-CTW. Prerequisite: Span 3303 with grade of C or higher, or equivalent, or consent of instructor. Historical and cultural aspects of Spain from prehistoric times to the present. Serves as one of the two Critical Thinking through Writing (CTW) courses required of all Spanish majors.

- **SPAN 3311 LAT AMER CULTURE & CIVIL-CTW** (Description Change; Title Change)
  Latin American Culture and Civilization-CTW. Prerequisite: Span 3303 with grade of C or higher, or equivalent, or consent of instructor. Historical and cultural aspects of Latin America from pre-Columbian times to the present. Serves as one of the two Critical Thinking through Writing (CTW) courses required of all Spanish majors.

- **SPAN 4407 SPAN FOR INTL BUSINESS II** (Description Change)
  Spanish for International Business II. Prerequisite: Span 3303 with grade of C or higher, or consent of instructor. Readings in the foreign language of current materials related to business and trade structures, issues, and procedures.

- **SPAN 4421 EARLY MODERN LIT & CULTURE** (Description Change)
  Early Modern Literature and Culture. Prerequisite: Span 3307 with grade of C or higher. Spanish cultural and literary manifestations from the early sixteenth century to the end of the seventeenth.

- **SPAN 4432 SPAN NOVEL 20TH CENTURY** (Description Change)
  Spanish Novel of the Twentieth Century. Prerequisite: Span 3307 with grade of C or higher, or equivalent. Novels from the Generation of 1898 to the present.

- **SPAN 4454 CONTEMP LATIN AMER NOVEL** (Description Change)
  Contemporary Latin American Novel. Prerequisite: Span 3307 with grade of C or higher, or equivalent. The Latin American novel of the twentieth century to the present, including the "Boom" and "Post-Boom" periods.

- **SPAN 4456 LATIN AMER SHORT STORY** (Description Change)
  Latin American Short Story. Prerequisite: Span 3307 with grade of C or higher, or equivalent. The evolution of the genre in the nineteenth and twentieth centuries, as manifested in the various schools of romanticism, modernism, realism, naturalism, "vanguardismo," and contemporary trends.

- **SPAN 4468 HISPANIC CARIBBEAN LIT & CULT** (Description Change)
  Hispanic Caribbean Literature and Culture. Prerequisite: Span 3307 with grade of C or higher, or equivalent. Survey of literature and culture from the Hispanic Caribbean, including Cuba, Puerto Rico, Dominican Republic, and other areas.

- **SPAN 4490 SENIOR STUDIES** (Description Change)
  Senior Studies. Prerequisites: senior standing, a 3.5 average, and at least nine hours of upper-level courses in the major. Extensive reading, discussions, and analysis of a broad spectrum of representative works, covering the most important genres and historical periods.

- **SPAN 4890 CONTEMPORARY MEXICAN FICTION** (Description Change)
  Contemporary Mexican Fiction. Prerequisite: SPAN 3307 with a grade of C or higher. An overview of the most influential novels in Mexican culture since 1960, with emphasis on writers such as Rulfo, Fuentes, Poniatowska, Agustin, Pacheco, Mastretta and Esquivel.
NEUROSCIENCE

ADDS

- NEUR 6330 FUNCTIONAL NEUROIMAGING 3.0
  Functional Neuroimaging. (Same as Phys 6710.) Prerequisite: consent of instructor. Three lectures hours a week. Foundations of physics principles applied to brain processes, different imaging modalities, and neuroimaging data analysis methods. Topics include physiological basis of functional neuroimaging, physics of different imaging modalities (fMRI, PET, EEG, MEG, fNIR, TMS), experimental design, neuroimaging data analysis, and applications in cognitive neuroscience. This course is appropriate for graduate students in physics, chemistry, biology, neuroscience, psychology, mathematics, statistics, and computer science with an interest in the use of functional neuroimaging.

- NEUR 8370 COMP MODELING-LIFE SCIENCES 3.0
  Computational Methods and Modeling for the Life Sciences. (Same as Math 8570.) Prerequisite: Math 6010 or Math 6275 with a grade of C or higher. Some familiarity with basic biological concepts will be assumed. Advanced computational methods for generating and analyzing deterministic dynamic models in the context of scientific data. Biological case studies may be drawn from many areas involving all scales of inquiry, from molecules to ecosystems.

- NEUR 8705 TOPICS IN NEUROPSYCHOLOGY 3.0
  Topics in Neuropsychology. (Same as Psyc 8910.) Prerequisite: Psyc 8620 with grade of B or higher. Intensive study of the relevant basic and applied literature relevant to a specific topic in neuropsychology, such as language, memory, reading, or executive function.

PHILOSOPHY

CHANGES

- PHIL 6030 TOPICS – ANCIENT PHILOSOPHY (Title Change)

POLITICAL SCIENCE

ADDS

- POLS 4996 STUDY ABROAD 3.0
  Study Abroad: European Studies in Strasbourg, France. No course prerequisite. Contemporary politics and political economy of European integration. Designed specifically for those students participating in Georgia State University Study Abroad Program.

PSYCHOLOGY

CHANGES

- PSYC 3570 MULTICULTURAL ISSUES IN PSYC (Prerequisite Change)
  Prerequisite: Psyc 1101 with grade of C or higher.

- PSYC 4100 COGNITIVE PSYCHOLOGY (Description Change; Prerequisite Change)
  Cognitive Psychology. Prerequisites: Psyc 1101, Psyc 3510, and Psyc 3530 with grades of C or higher, or equivalents. Describes cognitive phenomena, explains and utilizes research methods in cognitive psychology, discusses theories about the phenomena, and considers assumptions on which the theories and research are based.

- PSYC 4110 PHYSIOLOGICAL PSYCHOLOGY (Prerequisite Change)
  Prerequisites: Psyc 1101 with grade of D or higher and Psyc 3510 and Psyc 3530 with grades of C or higher, or
equivalents.

- **PSYC 4120 LEARNING** (Description Change; Prerequisite Change)
  Learning. Prerequisites: Psyc 1101, Psyc 3510, and Psyc 3530 with grades of C or higher, or equivalents. Describes learning phenomena, explains and utilizes research methods in learning, discusses theories of learning, and considers assumptions on which the theories and research are based.

- **PSYC 4130 SENSATION AND PERCEPTION** (Prerequisite Change)
  Prerequisites: Psyc 1101, Psyc 3510, and Psyc 3530 with grades of C or higher, or equivalents.

- **PSYC 4140 INTRO TO PSYCHOPATHOLOGY** (Prerequisite Change)
  Prerequisites: Upper division standing; Psyc 3510 and Psyc 3530 with grades of C or higher, or equivalents; and consent of instructor.

- **PSYC 4605 PSY PERSP ON INTIMATE VIOLENCE** (Prerequisite Change)
  Prerequisites: Psyc 1101 with grade of D or higher and Psyc 3510 and Psyc 3530 with grades of C or higher, or equivalents.

**RELGIOUS STUDIES**

**ADDS**

- **RELS 3260 ASIAN REL IN AMERICA  3.0**
  Asian Religions in America. Introduction to the history and development of Asian religious traditions in the United States, focusing on Buddhism, Hinduism, and Sikhism. Consideration given to immigrant practitioners and American-born converts. Also will consider how Asian religions have shaped American culture.

- **RELS 4080 RELS DIMENSIONS IN HUMAN EXPER  3.0**
  Religious Dimensions in Human Experience. Examines religions as integral aspects of human cultures. Integrates theoretical and methodological approaches to religious studies that center on human experiences, expressions, practices and beliefs with examples from particular historical and geographical locations. Topics and source materials may include material culture, archaeology, visual culture, literature, aesthetics, film and ethnography.

- **RELS 4430 AMERICAN JEWISH HISTORY  4.0**
  American Jewish History. This course surveys the Jewish experience in the United States, examining the religious, cultural, political, and economic activities of American Jews from the colonial period to the present. Students will explore the ways Jewish tradition has been adapted in America, what the relationship of American Jews has been to other Americans, and how American Jewish identities have been created from modern Jews' dual impulses for integration and distinctiveness. The course will include a significant examination of issues of regional identity, with particular focus upon the Southern Jewish experience. We will explore Jewish relationships with black and white gentile southerners, as well as southern Jews' embrace of southern culture and southern identity. This course will also familiarize students with the excellent resources on Atlanta Jewish history available at local archives.

- **RELS 6080 RELS DIMENSIONS IN HUMAN EXPER  3.0**
  Religious Dimensions in Human Experience. Examines religions as integral aspects of human cultures. Integrates theoretical and methodological approaches to religious studies that center on human experiences, expressions, practices and beliefs with examples from particular historical and geographical locations. Topics and source materials may include material culture, archaeology, visual culture, literature, aesthetics, film and ethnography.

- **RELS 6630 AMERICAN JEWISH HISTORY  4.0**
  American Jewish History. This course surveys the Jewish experience in the United States, examining the
religious, cultural, political, and economic activities of American Jews from the colonial period to the present. Students will explore the ways Jewish tradition has been adapted in America, what the relationship of American Jews has been to other Americans, and how American Jewish identities have been created from modern Jews' dual impulses for integration and distinctiveness. The course will include a significant examination of issues of regional identity, with particular focus upon the Southern Jewish experience. We will explore Jewish relationships with black and white gentile southerners, as well as southern Jews' embrace of southern culture and southern identity. This course will also familiarize students with the excellent resources on Atlanta Jewish history available at local archives.

CHANGES

- RELS 8970 TEACHING RELIGIOUS STUDIES (Credit Hour Change) 6.0

SOCIOLOGY

ADDS

- SOCI 4119 GLOBAL AGING AND FAMILIES 3.0
Global Aging and Families. This is an upper division undergraduate course designed to introduce population aging at a global level in a global perspective. The course utilizes macro-sociological approaches to explain how demographic changes, global economic transformations, and social policies influence aging experiences, processes, and families in different regions of the world. It also combines micro-sociological approaches to examine how families are changing in roles and responsibilities as well as in forms and structures because of population aging in a global context, informing students how aging is not just a personal issue but is affected by gender, race, ethnicity, class, as well as national boundaries.

WOMEN’S STUDIES

CHANGES

- WST 4912 SPEC TOPICS IN WOMEN’S STUDIES (Credit Hour Change) 1.0 TO 4.0
- WST 4999 DIRECTED READINGS (Description Change; Prerequisite Change)
  Directed Readings. Prerequisite: WSt 2010 with minimum grade of C and consent of instructor.
- WST 8005 WOMEN’S STUDIES PROSEMINAR (Grade Mode Change) – IP TO LETTER

DROPS

- WST 6999 DIRECTED READINGS
APPLIED LINGUISTICS & ESL

UNDERGRADUATE APL

1) Changed the TEFL certificate required courses by removing one course that is now a CTW course and removing other courses that have recently been redesigned.

COMMUNICATION

UNDERGRADUATE

1) Updated degree requirements language to be consistent with the program overview and approved course-level changes.

2) Updated and clarified CTW requirements and options for all FILM, SPCH, and JOUR concentrations.

PHYSICS & ASTRONOMY

UNDERGRADUATE PHYSICS

1) Added BS in Physics/MAT in Science Education program, including overview and requirements.